1   DOCUMENT CONTROL
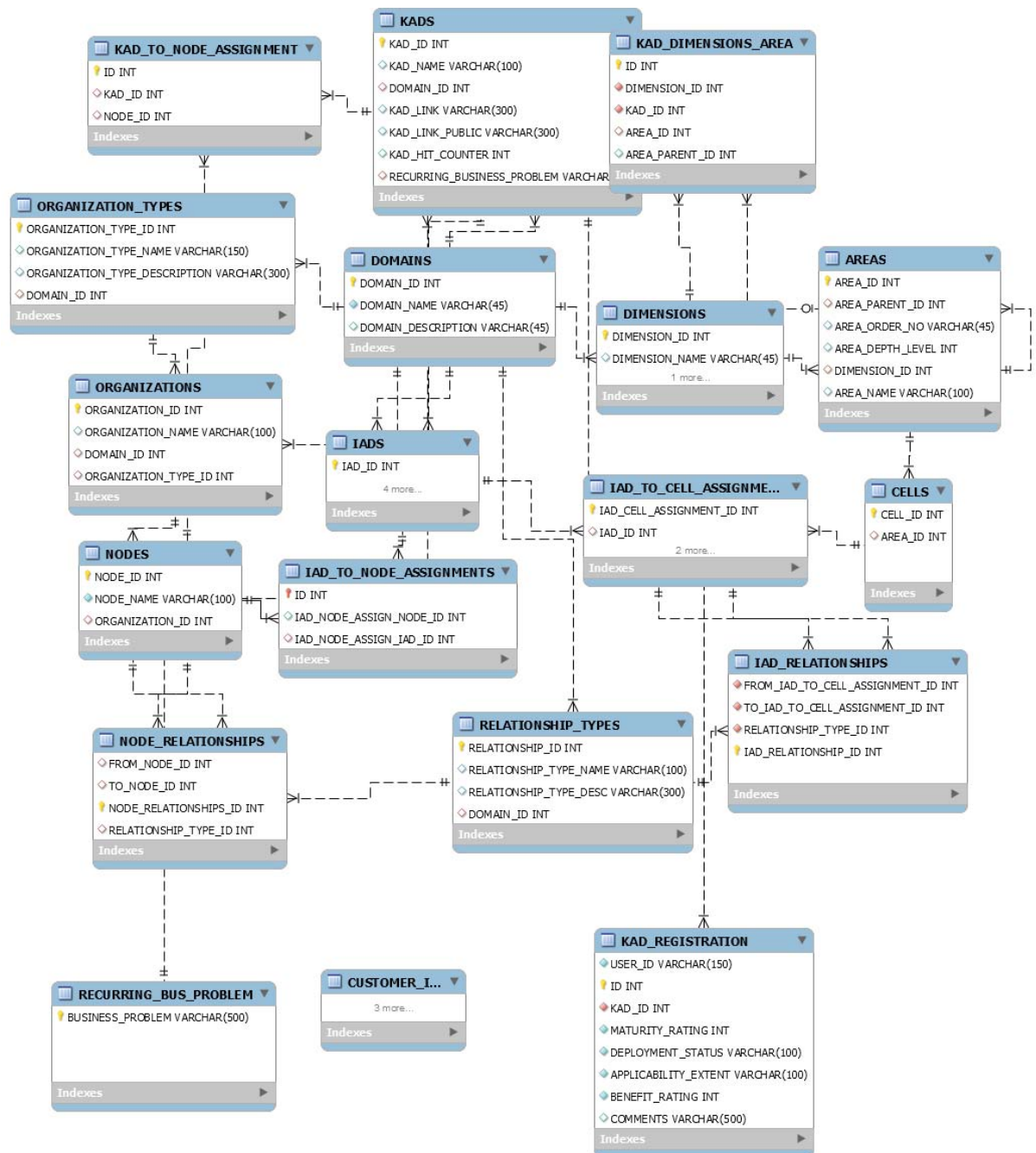
1.1   References

- ADF Essentials: http://www.oracle.com/technetwork/developer-tools/adf/overview/adfessentials-1719844.html

- Apache Fortress: http://directory.apache.org/fortress/

- Glassfish: https://glassfish.java.net

2   DATA MODEL

The data model diagram is shown below. It is present in the source code repository as well. An updated data model may be shared.

KAD_TO_NODE_ASSIGNMENT
- ID INT
- KAD_ID INT
- NODE_ID INT
- Indexes

KADS
- KAD_ID INT
- KAD_NAME VARCHAR(100)
- DOMAIN_ID INT
- KAD_LINK VARCHAR(300)
- KAD_LINK_PUBLIC VARCHAR(300)
- KAD_HIT_COUNTER INT
- RECURRING_BUSINESS_PROBLEM VARCHAR
- Indexes

KAD_DIMENSIONS_AREA
- ID INT
- DIMENSION_ID INT
- KAD_ID INT
- AREA_ID INT
- AREA_PARENT_ID INT
- Indexes

ORGANIZATION_TYPES
- ORGANIZATION_TYPE_ID INT
- ORGANIZATION_TYPE_NAME VARCHAR(150)
- ORGANIZATION_TYPE_DESCRIPTION VARCHAR(300)
- DOMAIN_ID INT
- Indexes

DOMAINS
- DOMAIN_ID INT
- DOMAIN_NAME VARCHAR(45)
- DOMAIN_DESCRIPTION VARCHAR(45)
- Indexes

DIMENSIONS
- DIMENSION_ID INT
- DIMENSION_NAME VARCHAR(45)
- 1 more...
- Indexes

AREAS
- AREA_ID INT
- AREA_PARENT_ID INT
- AREA_ORDER_NO VARCHAR(45)
- AREA_DEPTH_LEVEL INT
- DIMENSION_ID INT
- AREA_NAME VARCHAR(100)
- Indexes

ORGANIZATIONS
- ORGANIZATION_ID INT
- ORGANIZATION_NAME VARCHAR(100)
- DOMAIN_ID INT
- ORGANIZATION_TYPE_ID INT
- Indexes

IADS
- IAD_ID INT
- 4 more...
- Indexes

IAD_TO_CELL_ASSIGNME...
- IAD_CELL_ASSIGNMENT_ID INT
- IAD_ID INT
- 2 more...
- Indexes

CELLS
- CELL_ID INT
- AREA_ID INT
- Indexes

NODES
- NODE_ID INT
- NODE_NAME VARCHAR(100)
- ORGANIZATION_ID INT
- Indexes

IAD_TO_NODE_ASSIGNMENTS
- ID INT
- IAD_NODE_ASSIGN_NODE_ID INT
- IAD_NODE_ASSIGN_IAD_ID INT
- Indexes

IAD_RELATIONSHIPS
- FROM_IAD_TO_CELL_ASSIGNMENT_ID INT
- TO_IAD_TO_CELL_ASSIGNMENT_ID INT
- RELATIONSHIP_TYPE_ID INT
- IAD_RELATIONSHIP_ID INT
- Indexes

NODE_RELATIONSHIPS
- FROM_NODE_ID INT
- TO_NODE_ID INT
- NODE_RELATIONSHIPS_ID INT
- RELATIONSHIP_TYPE_ID INT
- Indexes

RELATIONSHIP_TYPES
- RELATIONSHIP_ID INT
- RELATIONSHIP_TYPE_NAME VARCHAR(100)
- RELATIONSHIP_TYPE_DESC VARCHAR(300)
- DOMAIN_ID INT
- Indexes

RECURRING_BUS_PROBLEM
- BUSINESS_PROBLEM VARCHAR(500)
- Indexes

CUSTOMER_I...
- 3 more...
- Indexes

KAD_REGISTRATION
- USER_ID VARCHAR(150)
- ID INT
- KAD_ID INT
- MATURITY_RATING INT
- DEPLOYMENT_STATUS VARCHAR(100)
- APPLICABILITY_EXTENT VARCHAR(100)
- BENEFIT_RATING INT
- COMMENTS VARCHAR(500)
- Indexes

3 SETUP INSTRUCTIONS

3.1 Application Schema [MYSQL]

Open the data model archemy_schema using mysql workbench [Database->Forward Engineer] and choose a saved connection to create the schema in the target database.

PL/SQL procedures. Create the stored procedures in
ITP\App\ArchemyAppModel\src\com\archemy\searchapp\model\sql\procedures.sql

Create a user name and password for the schema user that will be used later to configure the data source in glassfish and for the website.

3.2 Fortress and OpenLDAP

Follow instructions at

https://github.com/apache/directory-fortress-core/blob/master/README-QUICKSTART-SLAPD.md

And in the repository document for post install object creation.

ITP\installing_fortress.md.

A point to note download the fortress core directly from the repository and not the snapshot release as it enforces use of JAVA-8 which we don't want.

So for fortress core i.e. the first step use the following command.

git clone https://git-wip-us.apache.org/repos/asf/directory-fortress-core.git

3.3 Glassfish

Follow instructions here.

https://www.rosehosting.com/blog/install-glassfish-on-a-centos-6-vps/

Ensure that java version is 1.7 and not 1.8.

3.4   ADF Essentials on Glassfish

Download install ADF Essentials 11.1.2.4

To install ADF Essentials on glassfish 3.1.2 follow the instructions at

https://blogs.oracle.com/shay/entry/deploying_oracle_adf_applications_to.

Also place the **mysql-connector-java-5.1.40-bin.jar** in directory **/opt/glassfish3/glassfish/lib**

And place the **archemy-security-1.0-SNAPSHOT-jar-with-dependencies** in the directory

/opt/glassfish3/glassfish/domains/domain1/lib

3.5   Creating the MySQL data source in Glassfish

Create the datasource for connection of application with the database. Enter the credentials created in #MYSQL_SCHEMA .

Follow the following steps for creating the data source.

https://dev.mysql.com/doc/connector-j/5.1/en/connector-j-usagenotes-glassfish-config.html

3.6   Building and deploying the application

To build the application open it with JDeveloper 11.1.2.4 and go to [Application->Deploy-> to ear]
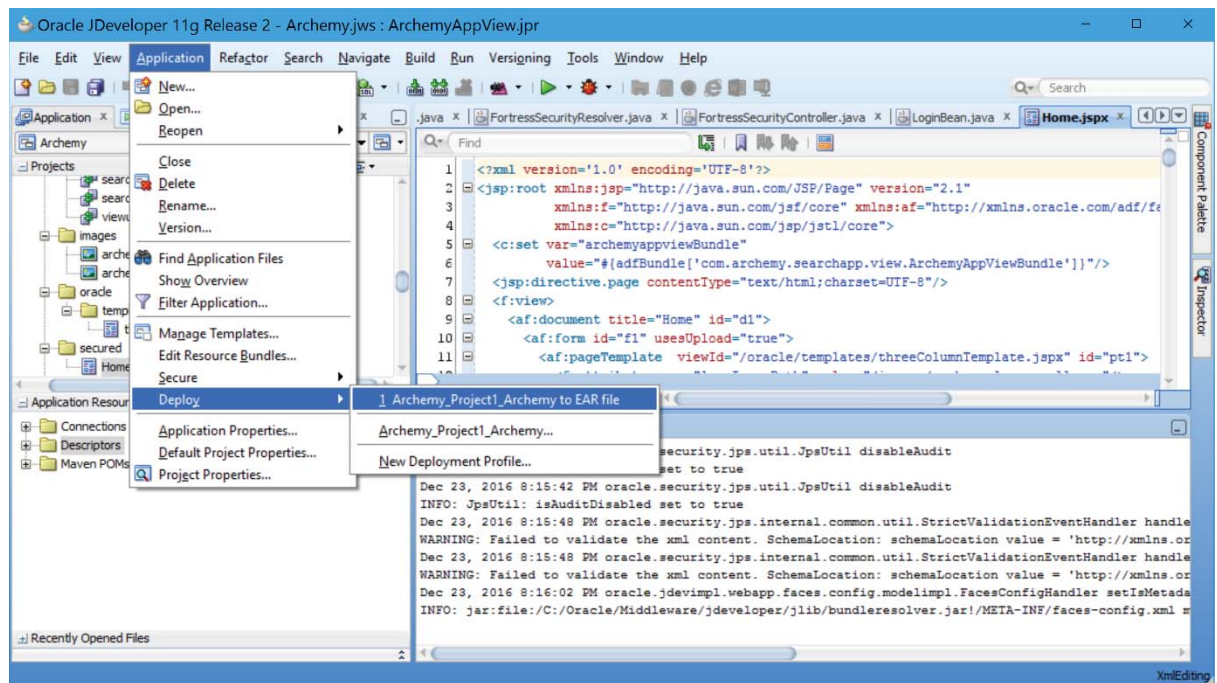
After the ear is created, open glassfish admin console and deploy the application ear that was just created.

3.7   Creating a New User

To create a new user, use the jar **archemy-security-1.0-SNAPSHOT-jar-with-dependencies** with the following command.

java -jar archemy-security-1.0-SNAPSHOT-jar-with-dependencies.jar -cuser -u tom@oracle.com -p oracle123 -r Admin -utype admin

Here is the help for the command

3.8   Changing user password

To change users' password, use the jar **archemy-security-1.0-SNAPSHOT-jar-with-dependencies** with the following command.

java -jar archemy-security-1.0-SNAPSHOT-jar-with-dependencies.jar -cpasswd -u tom@oracle.com -p oracle123

3.9 Adding a license key

To add a license key, use the jar **archemy-security-1.0-SNAPSHOT-jar-with-dependencies** with the following command.

java -jar archemy-security-1.0-SNAPSHOT-jar-with-dependencies.jar -akey <key_value> -u <user_name>

Example,

java -jar archemy-security-1.0-SNAPSHOT-jar-with-dependencies.jar -akey 123456 -u tom@oracle.com